

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

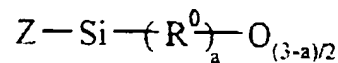
Listing of Claims:

1-11. (Canceled)

12. (Currently Amended) A dental composition comprising:

(1) at least one crosslinkable or polymerizable silicone oligomer or polymer which is liquid at room temperature or which is heat-meltable at a temperature of less than 100°C, and which comprises:

at least one unit of formula (I):



wherein:

- a = 0, 1 or 2,

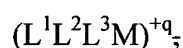
- R⁰, identical or different, represents an alkyl, cycloalkyl, aryl, vinyl, hydrogen or alkoxy radical,

- Z, identical or different, is an organic substituent comprising at least one reactive epoxy, alkenyl ether, oxetane, dioxolane or carbonate functional group, and

at least two silicon atoms,

(2) at least one dental filler present in a proportion of at least 10% by weight relative to the total weight of the composition, and

(3) an effective quantity of at least one organometallic complex borate photoinitiator having a residual light absorption of between 200 and 500 nm, the photoinitiator having a cationic and a borate anionic entity, said cationic entity being of formula (II):



wherein:

M represents a group 4 to 10 metal,

L^1 represents 1 ligand bound to the metal M by π by electrons, said ligand being η^3 -alkyl, η^5 -cyclopentadienyl, η^7 -cycloheptatrienyl and optionally substituted η^6 -benzene having from 2 to 4 condensed rings, each ring being capable of contributing to the valency layer of the metal M by 3 to 8 π electrons;

L^2 represents a ligand bound to the metal M by π electrons, said ligand being η^7 -cycloheptatrienyl or η^6 -benzene and the compounds having from 2 to 4 condensed rings, each ring being capable of contributing to the valency layer of the metal M by 6 or 7 π electrons;

L^3 represents from 0 to 3 ligands, which are identical or different, linked to the metal M by σ electrons, said ligand(s) being CO or NO_2^+ ; the total electron charge q of the complex to which L^1 , L^2 and L^3 contribute and the ionic charge of the metal M being positive and equal to 1 or 2; and

said anionic borate being of formula $[BX_aR_b]^-$ (III):



wherein:

- a and b are integers ranging, for a, from 0 to 3 and, for b, from 1 to 4 with $a + b = 4$,

- the symbols X represent:

a halogen atom (~~chlorine, fluorine~~) with $a = 0$ to 3, or

an OH functional group with $a = 0$ to 2,

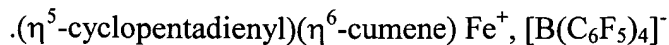
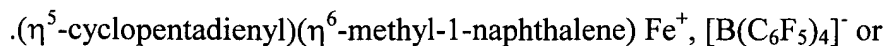
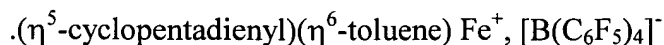
- the symbols R are identical or different and represent:

a phenyl radical substituted with at least one electron-attracting group or with at least 2 halogen atoms, this being when the cationic entity is an onium of an element of groups 15 to 17,

a phenyl radical substituted with at least one element or one electron-attracting group, this being when the cationic entity is an organometallic complex of an element of groups 4 to 10, or

an aryl radical containing at least two aromatic nuclei, optionally substituted with at least one electron-attracting group or element, regardless of the cationic entity.

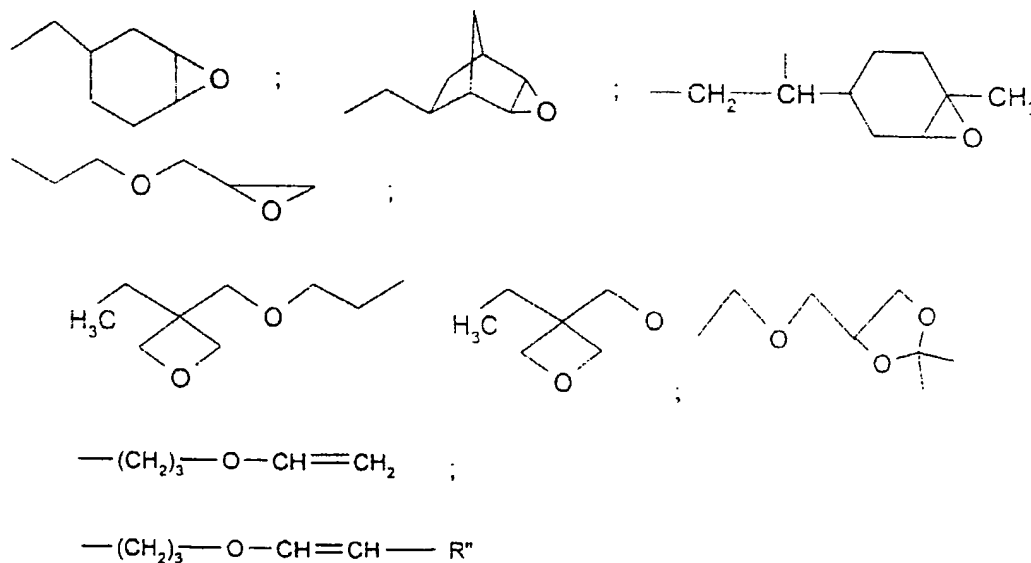
13. (Previously presented) A composition as claimed in claim 12, wherein the photoinitiator is:



14. (Previously presented) A composition as claimed in claim 12, wherein Z is an organic substituent Z1 comprising at least one reactive epoxy, or a dioxolane functional group.

15. (Previously presented) A composition as claimed in claim 14, wherein the oligomer or polymer (1) further comprises other reactive functional groups Z which are alkenyl ether, oxetane or carbonate functional groups Z2.

16. (Currently amended) A composition as claimed in claim ~~12~~ 14, wherein the reactive functional group(s) of Z1 is one of the following radicals:



- with R'' representing a linear or branched C₁-C₆ alkyl radical.

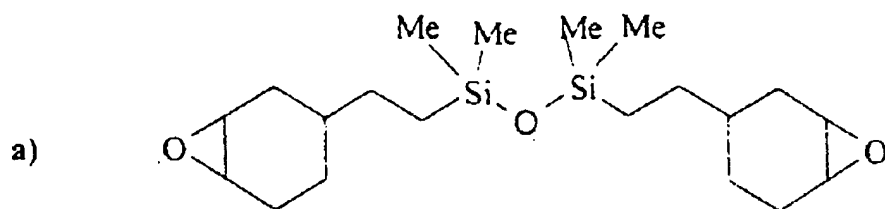
17. (Previously presented) A composition as claimed in claim 12, wherein the dental composition comprises at least one aromatic hydrocarbon photosensitizer with one or more optionally substituted aromatic nuclei, having a residual light absorption of between 200 and 500 nm.

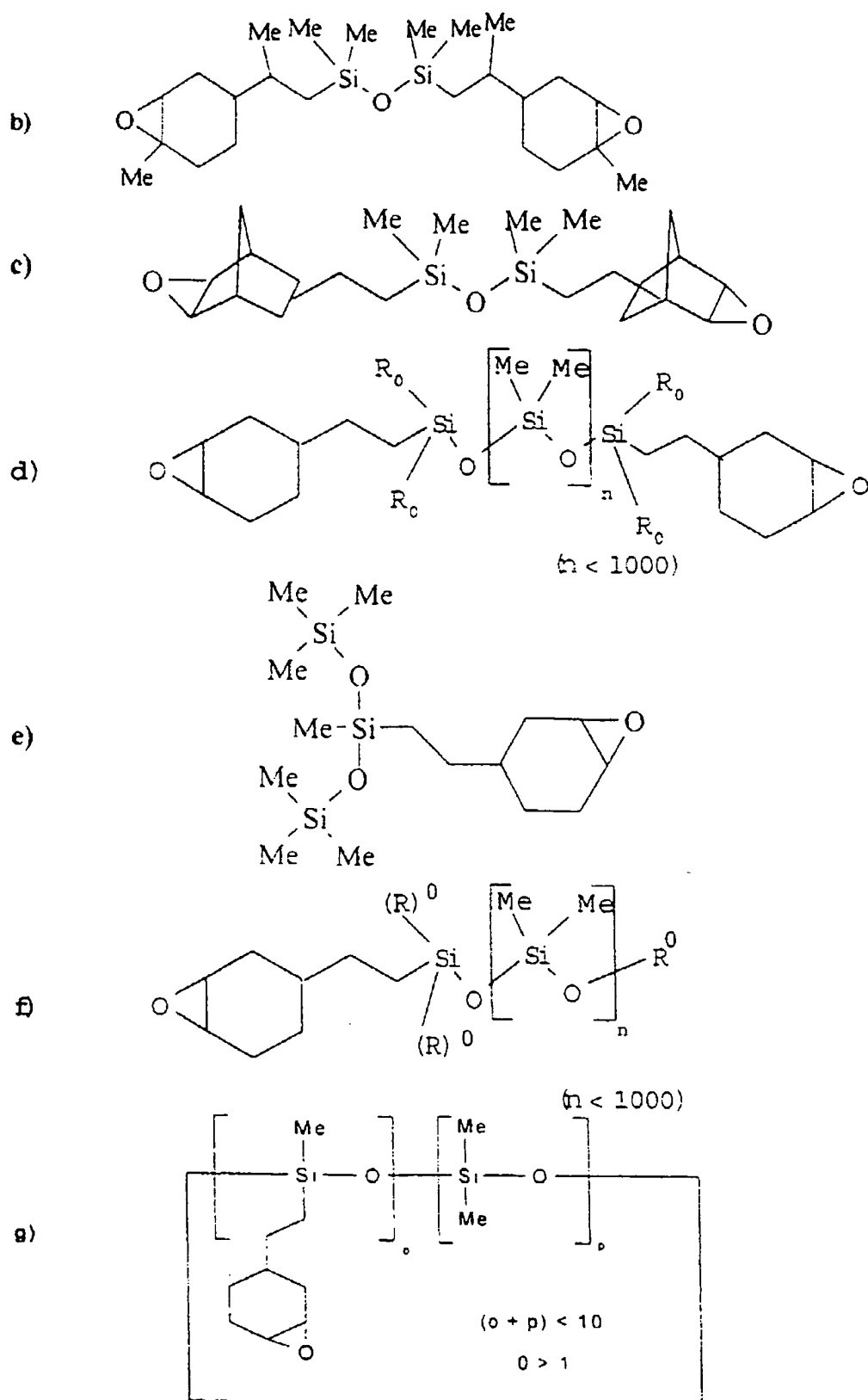
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AMENDMENT

18. (Currently amended) A dental composition as claimed in claim 12, wherein the silicone oligomer or polymer is at least one polysiloxane having the following average formula:





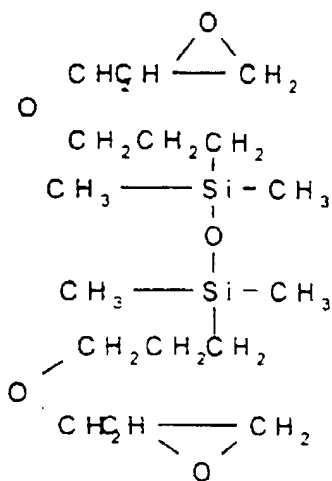
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AMENDMENT

or

h)



19. (Canceled)

20. (New) A dental composition as claimed in claim 12, provided in the form of a monocomponent composition.